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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,302	02/05/2002	Densen Cao	5061.8A P	1021
7590 05/31/2006			EXAMINER	
Parsons, Behle & Latimer 201 South Main Street, Suite 1800 P.O. Box 45898			PADGETT, MARIANNE L	
			ART UNIT	PAPER NUMBER
Salt Lake City,	UT 84145-0898		1762	
			DATE MAILED: 05/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/072,302	CAO, DENSEN				
		Examiner	Art Unit				
		Marianne L. Padgett	1762				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE Three MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 又	Responsive to communication(s) filed on 16 Ma	arch 2006.					
·	This action is FINAL . 2b) ☐ This action is non-final.						
'=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🖂	4)⊠ Claim(s) <u>19 and 21-27</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>19, 21-27</u> is/are rejected.						
7)							
8)□	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							

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1. Applicants terminal disclaimer of 3/16/06 was received, however it was not approved as the paralegals determined that the signing attorneys were not of record, hence the previously applied obviousness double patenting rejections of section 6 of the 9/15/2005 rejection are repeated below, however it is noted that SN 10/072613 is now patent number 6,974,319, and at the time of this action SN 10/073823 has been allowed, or but not yet issued.

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPO 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 19 & 21-27 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 5-6, 11-13 & 18 of copending Application No. 10/073823. Although the conflicting claims are not identical, they are not patentably distinct from each other because reasons as set forth in section 6 of the action mailed 9/15/2005. Note if terminal disclaimer (TD) is supplied after the actual issue date of the (823) application (whose notice of allowance was mailed to/14/2006), the TD should be to the patent number, which is not yet available.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

4. Claims 19 & 20-27 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-18 of U.S. Patent No. 6,974,319. Although the conflicting

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claims are not identical, they are not patentably distinct from each other because for reasons as set forth in section 6 of the action mailed 9/15/2005 with respect to SN 10/072,613, which has now issued.

- Applicants' amendment is noted to clarify the processes claimed, such that the orientation of the light output with respect to the orientation of the LED and heatsink associated therewith is clarified, with the newly claimed use in curing dental material, providing significance to the orientation. It is further noted that it is now clear that what has been claimed is not a range over which the light may be output, however but a range of about 30-150° with respect to the longitudinal axis of the heatsink, i.e. a full circular radius of 60° from normal, over all of which the continuous output of light from the LED occurs, not just somewhere within that range. For this reason the art rejection over Kovach et al. and the two Kennedy references in section 9 of the 9/15/2005 rejection is withdrawn, as the combination of these references does not suggest a process that uses the overall combined effects of the presently claimed processes
- 6. Applicant's arguments filed 3/16/2006 & discussed about have been fully considered but they are not persuasive.

Note that supplying an effective TD will remove the up of obviousness double patenting rejections, and pending updating at that time would find the new for the references, appear to make the claims allowable.

Other art of interest for use of LEDs and angle at which light is output are Dahm (2005/0231983 A1 & 2005/0158687 A1), as well as copending cases to Cao of Patton's 6969253 B2, 6971875 B2, 6971876 B2 & 6974319 B2 whose claims are to apparatus used in curing processes.

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing

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date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marianne L. Padgett whose telephone number is (571) 272-1425. The examiner can normally be reached on M-F from about 8:30 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks, can be reached at (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MLP/dictation software

5/29-30/2006

MARIANNE PADGETT
PRIMARY EXAMINER